intel

Intel Xeon W-2223 processor 3.6 GHz 8.25 MB Box

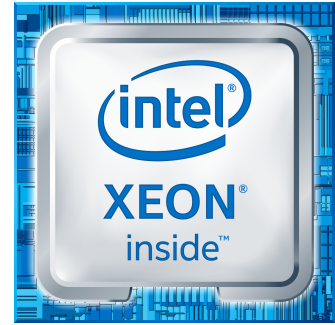**Brand :** Intel   **Product family:** Xeon   **Product code:** BX80695W2223

Product name : W-2223

Intel® Xeon® W-2223 Processor (8.25M Cache, 3.60 GHz)
Intel Xeon W-2223. Processor family: Intel Xeon W, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Workstation, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Package type: Retail box. Processor package size: 45mm x 52.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Processor model *	W-2223	Intel® Identity Protection Technology (Intel® IPT)	✔
Processor base frequency *	3.6 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel Xeon W		
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✔
Processor socket *	LGA 2066 (Socket R4)	Enhanced Intel SpeedStep Technology	✔
Component for	Server/workstation		
Processor lithography *	14 nm	Intel Trusted Execution Technology	✔
Processor threads	8	Intel® Memory Protection Extensions (Intel® MPX)	✔
System bus rate	8 GT/s		
Processor operating modes *	64-bit	Intel® Speed Shift Technology	✔
Processor boost frequency	3.9 GHz	Intel® Transactional Synchronization Extensions	✔
Processor cache	8.25 MB		
Thermal Design Power (TDP)	120 W	Intel VT-x with Extended Page Tables (EPT)	✔
Box *	✔		
Cooler included *	✔	Intel Demand Based Switching	✔
Memory bandwidth supported by processor (max)	85.3 GB/s	Intel® Secure Key	✔
		Intel TSX-NI	✔
Processor codename	Cascade Lake	Intel® OS Guard	✔
Processor ARK ID	198018	Intel Software Guard Extensions (Intel SGX)	✘
Memory		Intel 64	✔
Maximum internal memory supported by processor	1.02 TB	Intel Virtualization Technology (VT-x)	✔
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✔
Memory clock speeds supported by processor	2666 MHz	Intel Turbo Boost Max Technology 3.0	✘
Memory channels *	Quad-channel	Intel® Optane™ Memory Ready	✘
ECC	✔	AVX-512 Fused Multiply-Add (FMA) units	2
Graphics		Intel® Boot Guard	✔
On-board graphics card *	✘	Intel® Deep Learning Boost (Intel® DL Boost)	✔
Discrete graphics card *	✘		
On-board graphics card model *	Not available	Intel® Volume Management Device (VMD)	✔
Discrete graphics card model *	Not available	Intel® vPro™ Platform Eligibility	✔
Features		**Operational conditions**	
Execute Disable Bit	✔	Tcase	64 °C
Idle States	✔		
Thermal Monitoring Technologies	✔		
Market segment	Workstation		

Features

Maximum number of PCI Express lanes	48
PCI Express slots version	3.0
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	1S
Physical Address Extension (PAE)	✔
CPU configuration (max)	1
Embedded options available	✘
Physical Address Extension (PAE)	46 bit
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Technical details

Launch date	Q4'19
Product type	Processor
Status	Launched
Supported memory types	DDR4-SDRAM
Bus speed	8 GT/s

Logistics data

Harmonized System (HS) code	85423119

Packaging data

Package type	Retail box

Weight & dimensions

Processor package size	45mm x 52.5mm

Other features

Maximum internal memory	1 TB

5032037171960

0735858429962

735858429962

0735858429979

735858429979